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ABSTRACT

This document reports on Utah's progress toward achieving the six National Education Goals. The goals are discussed under the following headings: (1) Readiness for School; (2) High School Completion; (3) Student Achievement and Citizenship; (4) Science and Mathematics; (5) Adult Literacy and Lifelong Learning; and (6) Safe, Disciplined, and Drug-Free Schools. Each goal is covered in a separate section, and each section includes: (1) performance and status information related to the particular goal; and (2) examples of current and emerging Utah programs in each of the goal areas. A subsequent section describes other important Utah educational reform programs, such as The Career Ladder Program, The Incentives for Excellence in Public Schools Program, The Site-Based Decision Making Pilot Program, The Experimental and Developmental Program, and The Utah Partnership for Educational and Economic Development. The final section describes strategic-planning activities initiated by passage of the Utah Strategic Planning Act for Educational Excellence and outlines the Centennial Schools Program. Eight tables are included. (LMI)

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A Utah Perspective
ON THE
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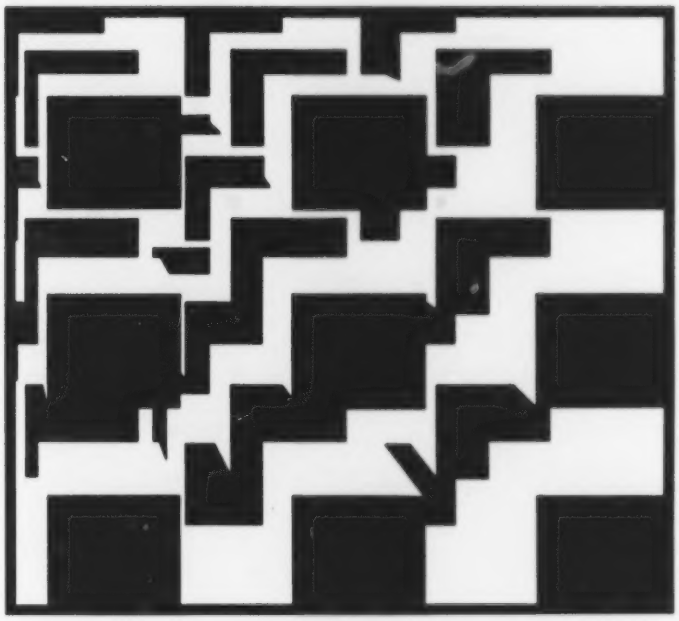

Office of the Governor
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Governor

Utah State Office of Education
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A UTAH PERSPECTIVE on the NATIONAL EDUCATION GOALS

1993

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250 East 500 South
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September 1993

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GOVERNOR

STATE OF UTAH
OFFICE OF THE GOVERNOR
SALT LAKE CITY
84114-0601

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At the education summit in Charlottesville, Virginia, in September 1989, the nation's governors agreed to establish national education goals and a system to assess and monitor progress toward achieving them. Today, September 30, 1993, the anniversary of the historic summit, the National Education Goals Panel will issue its third annual education report. The report will focus on national and state progress toward achieving the education goals set in 1990 by the President and the governors. This progress report will inform the nation on how well we are doing on each of the goals. The governors also agreed to report individually on efforts of their respective states related to their state's performance toward achieving the national goals.

Our own report, "A Utah Perspective on the National Education Goals," is issued to citizens of the state of Utah to inform them on the progress being made in our state toward the national goals. Because the goals are "cradle to grave" and cover the preschool years and the after school years, the information has been compiled from many state agencies. Meeting all of these six goals will require the coordination and work of all state agencies. It provides an opportunity to bring together different agencies and groups to assess state progress and where our state needs to go. While we have made much progress in Utah toward the achievement of the national goals, we note that there is still much to be done to make these goals a reality for every citizen of our state.

We call your attention to the sections of the report that indicate many of the programs and systems in place to address the national goals. As these and other new programs continue to be implemented, we are confident it will prepare Utah students for the future and the national education goals will be achieved.

The principal author and editor of this report was Dr. David E. Nelson of the Utah State Office of Education.

Michael O. Leavitt
Governor

Scott W. Bean
State Superintendent
of Public Instruction

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INTRODUCTION

In 1990, the President and the nation's governors adopted six ambitious national education goals. These goals appear on the following page. Subsequent to this action, the National Governor's Association created the National Education Goals Panel to measure and monitor achievement in each of the goal areas through an annual report.

The National Governor's Association has also encouraged each state to produce a companion report to the national report. Thus, this document provides a Utah perspective on the performance of the state and existing programs in each of the six goal areas. Additionally, Utah has a variety of educational strategic planning initiatives and other reform efforts which are not addressed by the national goals. An effort has been made in this document to provide a flavor of some of these initiatives which are unique to the state.

Utah has in place a wide variety of assessment and accountability programs for public education. Reports from those programs have been widely distributed to the public, the media and the education family. These detailed reports are available from each of the agencies cited. This report highlights key findings from many previously published assessment reports and evaluations as well as reporting new information specifically related to the six national goals.

Format of the Report. The report addresses each of the six national goals in a major section. Each section features: **(1) performance and status information related to a particular goal and (2) examples of current and emerging Utah programs in each of the goal areas**. It should be stressed that the programs cited are only examples of ongoing statewide efforts and not a complete compendium of all state and district programmatic efforts closely related to each goal.

In its final sections, the report deals with specific programs and planning efforts which are important Utah initiatives but address areas which are beyond the scope of the national goals.

GOALS ESTABLISHED BY THE NATION'S GOVERNORS AT THE CHARLOTTESVILLE EDUCATION SUMMIT

1. All children in America will start school ready to learn.

2. The high school graduation rate will increase to at least 90 percent.

3. American students will leave grades four, eight, and twelve having demonstrated competency in challenging subject matter including English, mathematics, science, history, and geography; and every school in America will ensure that all students learn to use their minds well, so they may be prepared for responsible citizenship, further learning, and productive employment in our modern economy.

4. U.S. students will be first in the world in science and mathematics achievement.

5. Every adult American will be literate and will possess the knowledge and skills necessary to compete in a global economy and exercise the rights and responsibilities of citizenship.

6. Every school in America will be free of drugs and violence and will offer a disciplined environment conducive to learning.

GOAL 1: READINESS FOR SCHOOL

PRESENT PERFORMANCE/STATUS

Children's Access to Health Care. The Utah Department of Health reports that factors such as low income, lack of insurance, and shortages of health care providers serving certain areas of the state, limit children's access to health care in Utah. It is estimated that in 1990, about 82,000 children in Utah were living below the poverty level. Only about 8,000 children were seen in public health clinics. A 1986 Utah study found that about 92,000 children under the age of 20 lived in families without health insurance. A 1990 study reported that about 30 percent of the Utah parents of children between one and two years of age reported that their children were not adequately immunized.

Prenatal Health. State Health Department statistics demonstrate that the proportion of women receiving prenatal care in the first trimester of pregnancy increased during 1985-89 for all women and for women delivering in the Medicaid program. Adequacy of care also improved. As of 1989, about 5.7 percent of all births were low birth weight. This percentage has remained essentially constant since 1985. Utah's infant mortality rate has declined steadily since 1985, reaching 7.5 deaths per 1,000 live births in 1990, the lowest level in the history of the state.

Nutritional Status of Children. Children of lower socioeconomic status are at a greater risk of inadequate nutrient intakes and poorer growth. The nutritional picture is complicated by the fact that more and more parents are employed outside of the home which places enormous responsibility upon day-care providers for the nutritional well-being of children.

EXAMPLES OF UTAH PROGRAMS ADDRESSING GOAL 1

The Baby Your Baby Program. This Division of Family Health Services program is multi-faceted and has included: (1) greatly increased funding for providing prenatal care to those in need of financial assistance; (2) a public service outreach campaign consisting of television specials, public service announcements and distribution of printed outreach materials; and (3) the Baby Your Baby hot line, a very effective tool for assisting pregnant women in obtaining timely prenatal care.

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Improving Access to Health Care. Clinical services offered through Utah's local health departments are directed primarily toward clients who lack financial or geographic access to needed child care through the private sector. Access has increased by offering medical services for children at low costs. The Division of Family Health Services has expanded the scope of their programs to promote utilization of well-child examinations. This includes intensive media efforts to promote services linked to the Baby Your Baby program.

The Women, Infants and Children (WIC) Program. In promoting enhanced nutrition for children, the WIC program provides a variety of nutrition education activities including informing parents and care-takers of their eligibility for the program, providing information on the nutritional value of supplemental foods provided by the program, and stressing the importance of health care and referrals to other health care programs if needed.

Enhancing the Nutritional Adequacy of Food Provided in Day-care Programs. The Department of Health, in conjunction with the Department of Human Services and the State Office of Education, has been pursuing several avenues to improve nutritional quality of food in day-care programs. These include: (1) establishing child care licensing standards; (2) providing training in child nutrition; and (3) development of manuals to assist care providers in planning nutritious meals.

The Utah Center for Families in Education. The State Office of Education operates the Utah Center for Families in Education. An important part of this program involves working with parents of preschool children to help prepare them for school and to begin a positive relationship between parents and the school. The goal of the project is to produce better prepared kindergarten students whose parents have developed a positive relationship with school personnel.

Utah PTA Initiatives in Early Childhood Education. The Utah PTA has promoted numerous programs to enhance the readiness of children for school. These efforts include supporting preschools, early intervention for at-risk students, funding for care of preschool handicapped children, parent training, support of universal immunization, preventative programs in the area of child abuse, and initiatives to address child care needs.

Migrant Education. Migrant Education is a federally subsidized program for disadvantaged students of parents who are employed in seasonal agricultural work and must move frequently to follow seasonal farm work activity. The program, while serving all migrant children, emphasizes early childhood education. During the summer of 1993, 605 children from birth to five years of age were enrolled in the Migrant Education Program. Services provided for these children were health services (medical and dental), reading readiness, instruction in the English language, social skills activities, and

nutritional meals through special lunch and breakfast programs. The Early Childhood Education Services help prepare young migrant children to experience success when they enter elementary school.

Preschool Special Education. All Utah school districts provide preschool special education services to children between the ages of three years through kindergarten. Funding is derived from both federal and state sources, and at present the program serves over 4,000 children with disabilities statewide.

The Headstart Program. The federally-funded Headstart Program provides services throughout the state to economically disadvantaged preschool children. The emphasis in the program includes equipping children with school readiness skills, parent training, and delivery of health and dental services and nutrition information.

The Baby Watch Program. Baby Watch is the state's interagency (Health, Education, and Human Services) child find system. The purpose of Baby Watch is the location, identification, and evaluation of all children throughout the state who are eligible for early intervention or preschool special education services.

The Utah Office of Child Care. This organization was legislatively mandated in 1992. It coordinates public awareness, professional development, and recruitment of business-based child care throughout the state.

GOAL 2: HIGH SCHOOL COMPLETION

PRESENT PERFORMANCE/STATUS

Percentage of the Adult Population Holding a High School Diploma. In both 1970 and 1976, Utah was ranked first among the 50 states by the U.S. Census in the percentage of its population over age 25 holding a high school diploma. In 1980 and 1990, Utah was second-ranked among all 50 states, being surpassed only by Alaska. The percentage of adults holding a high school diploma rose steadily within the state over two decades with 85 percent holding at least a high school diploma in 1990, compared to 67.3 percent in 1970.

Median Years of Education. The U.S. Census shows that Utah had the highest median years of education of any state in the nation as of the 1970, 1976, and 1980 Census studies. The Census analysis shows that median years of education for Utah adults increased from 12.5 years to 12.8 years during the decade, while the national median increased from 12.2 to 12.5.

Dropout Rates. The Utah State Office of Education has estimated the cumulative grade 9-12 dropout rate for the state as just under 10 percent as of 1990-91. The federally-sponsored High School and Beyond Study computed the national grade 9-12 dropout rate at slightly more than 17 percent as of 1986. Work continues on both the federal and state levels to refine existing approaches for determining dropout rates.

EXAMPLES OF UTAH PROGRAMS ADDRESSING GOAL 2

Alternative High Schools. Alternative high school programs now exist in many Utah school districts. These programs feature a curriculum tailored to the needs of students who, for a variety of reasons, have not found success in the traditional high school setting. The alternative high school offers an avenue for high school completion for hundreds of Utah students who previously would have dropped out and not pursued a high school diploma.

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Adult Basic and Adult High School Education Programs. As of 1991-92, 26,609 Utah adults attended either adult basic or adult high school education programs. The focus on these programs is to enable growing numbers of Utahns to become self-reliant and productive citizens. In 1992, some 2,405 Utah adults received their high school diplomas through the adult high school education program. This number is the equivalent of about eight percent of regular high school graduates for 1992.

The General Education Development Program and Testing Service. For adults who did not complete high school, the tests of General Educational Development (GED) provide an opportunity to earn a high school credential. The GED program enables individuals to demonstrate that they have acquired a level of learning comparable to that of high school graduates. The program is recognized nationwide by employers and institutions of higher education. During 1992, some 5,063 Utahns completed the GED. Over 70% of these individuals met the score requirements to obtain a high school equivalency certificate. The approximately 3,500 successful test-takers represent a number which is equal to almost 15 percent of regular high school graduates in the state.

The Youth in Custody Program. Due to a variety of reasons including neglect, abuse, abandonment, or for conviction of a criminal offense, thousands of Utah young people become involved in the Youth in Custody program. This program has developed a multi-faceted education model which centers on effective socially- acceptable problem-solving. During the 1991-92 school year, 9,304 youth in custody were provided with educational services.

Dropout Prevention. The Utah Center for Families in Education at the State Office of Education is currently piloting parent involvement activities focused on dropout prevention. The major mechanism being used here is the student education plan (SEP) which is used to help students select realistic goals about their future and to evaluate progress. Research on dropout prevention suggests that these kinds of activities are a factor in encouraging students to remain in school.

GOAL 3: STUDENT ACHIEVEMENT AND CITIZENSHIP

PRESENT PERFORMANCE/STATUS

Statewide Testing Program Results. In the fall of 1990, Utah launched a Statewide Testing Program at grades 5, 8, and 11 using the Stanford Achievement Test. The results for 1990 through 1992 are presented in Table 1. As of 1992, at all three grade levels, the performance of the state exceeded national performance in mathematics, reading, science, and social science. Fifth grade mathematics and eleventh grade science were particular areas of strength for Utah students when compared to their peers across the nation. The scores of Utah students in the language/English test were substantially below the level of performance attained by Utah students in other areas and were also slightly lower than the national average for grades 5 and 8. The Statewide Testing Program provides results in these same areas for every school in the state and for each of the nearly 100,000 students tested each year in this program.

ACT Results. Each year approximately 18,000 Utah high school juniors and seniors take the American College Testing Program (ACT) college entrance examination. For any given year, this constitutes about 70 percent of the total number of students graduating in the state. Table 2 shows the state's college-bound students performing at higher levels than their national counterparts on the English, mathematics, reading, science reasoning, and composite ACT scores. An area of concern over the past several years has been the performance of Utah students on the ACT mathematics test. In 1993, Utah students improved substantially on the mathematics score and now perform higher than the national average.

Core Curriculum Assessment Program Results. In the spring of 1993, over 600,000 criterion-referenced tests were administered to Utah students in the areas of reading, mathematics, and science. These criterion-referenced tests are designed to measure specifically what objectives Utah students have and have not attained related to Utah's statewide core curriculum. At the elementary levels of first grade through sixth grade, Utah students perform well on the core assessment tests through grade four in virtually all areas. Performance in grades five and six is somewhat lower than in grades one through four in the areas of mathematics and science. Secondary results in math and science document useful information to help improve mathematics and science performance in specific courses.

TABLE 1

UTAH STATEWIDE TESTING PROGRAM - FALL 1992
STATE RESULTS FOR MAJOR SUBTESTS
Median National Percentile Ranks for the Total State
Stanford Achievement Test, Eighth Edition

Subtest	Grade 5			Grade 8			Grade 11		
	1990	1991	1992	1990	1991	1992	1990	1991	1992
Mathematics	60th	62nd	62nd	53rd	54th	55th	54th	59th	59th
Reading	53rd	55th	53rd	55th	55th	55th	58th	58th	61st
Language/English	48th	48th	48th	45th	45th	45th	45th	51st	51st
Science	52nd	56th	56th	53rd	53rd	58th	60th	60th	60th
Social Science	55th	55th	55th	50th	50th	54th	56th	56th	58th
Total Basic Battery	53rd	55th	54th	51st	51st	53rd	53rd	55th	56th
Students Tested	36,331			35,417			29,067		

The National Norm is 50 for each subtest

Source: Utah State Office of Education

TABLE 2

Utah and National ACT Scores For 1992 and 1993

Test	Utah		Nation	
	1992	1993	1992	1993
English	20.7	20.8	20.2	20.3
Mathematics	19.9	20.2	20.0	20.1
Reading	21.9	21.8	21.1	21.2
Science Reasoning	21.4	21.3	20.7	20.8
Composite	21.1	21.1	20.6	20.7

Utah score averages are based on all Utah students from the graduating class of 1993 taking the ACT on the five national test dates (18,217 students). National score averages are for all students in the graduating class of 1993 taking the ACT on the five national test dates (875,603) students.

ACT standard scores are based on a scale on which a particular student might obtain a low of 1 up to a high of 36.

Source: American College Testing Program

State-by-State National Assessment. The National Assessment of Educational Progress (NAEP) recently released the results from the 1992 State-by-State Assessment of mathematics at grades 4 and 8 and reading at grade 4. Utah students at both grade 4 and grade 8 scored substantially better than their peers nationally. Utah fourth grade students had an average overall mathematics proficiency score of 223. This contrasted with the national figure of 217. This level of performance ranked Utah 12th among the 44 states and territories participating in the 1992 mathematics assessment. Utah eighth graders demonstrated an average proficiency score of 274, compared to a national figure of 266. At this grade level, the state was 8th in the nation. In reading, Utah fourth grade students also outperformed their peers nationally and in the west. The state was ranked 10th in the reading study. Table 3 presents an overview of the results.

Course-Taking Patterns of Utah High School Students. Since 1984, the State Office of Education has tracked the course-taking patterns of Utah high school seniors. As of 1993, substantially higher percentages of Utah students are taking at least two years of foreign language, mathematics, and science than was true in 1984. Table 4 presents a comparison of 1984 and 1993 Utah course-taking results. Substantial increases have been noted in the percentage of Utah students taking courses such as first and second year algebra as well as geometry and trigonometry. Some increases have also been noted for chemistry and physics. While there are still many areas which could benefit by additional emphasis, the overall pattern indicates that Utah students were taking a much more rigorous program of studies in 1993 than was true a decade earlier.

Advanced Placement (AP) Performance. Both participation and performance of Utah students in the Advanced Placement program have been extraordinarily high over the last ten years. On the basis of examinations taken per capita, Utah is consistently the first-ranked state in the Advanced Placement program. Thus, a much higher percentage of Utah students take AP exams than any other state in the nation. Table 5 demonstrates that in 1993, 14,318 AP examinations were taken by 9,436 Utah students. This represents an increase in examinations taken of over 400 percent since 1982 for the state. The 1993 results show that Utah students continued to score very well on a variety of Advanced Placement examinations. Considering all exams taken by Utah students who took the national AP test, over 71 percent of all exams written by Utah students received a qualifying score sufficient to earn college credit.

TABLE 3

1992 State-By-State National Assessment Results
Overall Average Mathematics and Reading Proficiency
For Utah, the West, and the Nation
Grades 4 and 8

	Mathematics		Reading
	Average Score		Average Score
	Grade 4	Grade 8	Grade 4
Utah	223[a]	274	222
West	217	267	213
Nation	217	266	216
Utah's Rank in the Nation	12th[b]	8th	10th

Utah's performance at both grade 4 and grade 8 is significantly higher than the nation. (Based on an evaluation of statistical significance.)

[a] Results are based on National Assessment Scales which have a theoretical range from 0 to 500.

[b] Forty-four states and territories participated in the 1992 State-by-State National Assessment.

Source: National Assessment of Educational Progress

TABLE 4

Comparison of Percentages of Utah High School Students Who Have Taken Specific Courses for 1984, 1988, and 1993

Course	1984	1988	1993
Algebra I	78.7%	88.4%	86.3%
Algebra II	48.2%	63.2%	68.7%
Advanced Algebra	NA	NA	38.4%
Geometry	48.3%	66.4%	70.1%
Trigonometry	24.7%	33.0%	37.3%
Biology	NA	NA	86.9%
Chemistry	26.7%	38.0%	42.6%
Physics	14.2%	18.8%	21.2%
Computer-Related Course	28.0%	43.4%	64.3%
AP History/Government/Economics	15.6%	20.8%	27.9%
AP English	21.0%	27.6%	25.9%
AP Mathematics/Calculus	10.1%	13.1%	14.2%
AP Science	10.8%	10.5%	14.9%
AP Foreign Language	NA	NA	6.2%
AP Music/Art	NA	NA	12.9%
AP Computer Science	NA	NA	3.2%

Source: Utah State Office of Education

TABLE 5

Utah Advanced Placement Participation and Performance, 1982-1993

Year	Total Students	Total Exams Taken	Percentage Qualifying*	
			Utah	Nation
1982	2,329	3,094	64.3%	69.8%
1983	2,685	3,669	67.5%	70.3%
1984	3,355	4,695	67.1%	70.0%
1985	4,272	6,148	66.6%	67.2%
1986	4,738	7,010	67.8%	68.7%
1987	5,390	7,970	67.4%	67.7%
1988	5,831	8,954	70.7%	67.3%
1989	6,568	10,030	66.9%	65.3%
1990	6,585	10,126	70.8%	66.4%
1991	7,596	11,586	70.2%	64.0%
1992	8,669	13,260	70.9%	65.4%
1993	9,436	14,318	71.7%	64.3%

*Percentage of exams with a grade of 3 or higher

Source: The College Board

EXAMPLES OF UTAH PROGRAMS ADDRESSING GOAL 3

The State Core Curriculum. In the mid 1980's, the State Board of Education established a policy requiring the identification of specific core curriculum standards which must be completed by all Utah students in grades kindergarten through twelve. This action was followed by several years of extensive work in developing and refining the state core curriculum standards for Utah schools. The core curriculum represents those standards of learning that are essential for all students. The core curriculum is established for language arts, mathematics, science, social studies, the arts, information technology, healthy lifestyles, and applied technology. The mathematics core K-7 has been extensively revised to reflect the new national standards which is a trend to teach more real world, problem solving, hands-on mathematics. The State Office of Education, in collaboration with higher education and business partnerships, is also in the process of revising the K-6 science curriculum. During the 1993-94 school year, several urban and rural school districts will be piloting and revising the new science standards and objectives. The State Office of Education provides extensive educator training related to the core curriculum. In 1992-93, over 8,000 Utah teachers and administrators received training in core implementation.

The Core Assessment Program. Directly linked to the Utah core curriculum is an extensive system of criterion-referenced tests built to measure student performance in relationship to the core curriculum. In 1993, over 600,000 core assessment criterion-referenced tests were administered to Utah students. A sophisticated, mainframe computer-based scoring and reporting system developed by the State Office of Education generates individual student profiles to be used by teachers and students as a basis for further instruction.

Outcome-Based Education. Outcome-based education is being implemented in every Utah school district to some degree. This approach to teaching and learning stresses teaching to specifically defined instructional objectives and evaluating student performance in relationship to these objectives. Outcome-based education is a strong companion to the Utah core curriculum.

The Utah Nine District Consortium. Nine Utah school districts, in conjunction with the State Office of Education, are participating as consortium members in the development of a new delivery system for student educational and occupational programs in both vocational and academic education. The concept involves total restructuring of the high school program and environment. Among the specific thrusts in the consortium is an

effort to develop, field test, and perfect a student occupational plan and work preparation system that is market-driven. The program focuses on providing skills so students can leave school with multiple options for both work and further education.

The Educational Technology Initiative (ETI). Over the four-year life of the educational technology initiative, the Legislature has appropriated $49.8 million dollars to place the technological tools necessary to improve the teaching and learning process in mathematics, reading, language arts, and science. The 40 school districts, four colleges of education, the Utah Schools for the Deaf and the Blind, and the business and vendor community have far surpassed the legislatively mandated matching fund requirements. The Technology Initiative has proved to be a positive step in providing teachers and students with the skills they need to compete in today's world.

The Chapter 1 Program. All 40 of Utah's school districts operate a program of compensatory/remedial education based on federal Chapter 1 funding and guidelines. During the past school year, some 280 Utah schools operated Chapter 1 programs and over 32,000 Utah students were served in the subject areas of mathematics, reading and other language arts. The availability of Chapter 1 funding is based on both economic and academic criteria. Students are given tests to measure gains of the Chapter 1 programs. Across the state, Chapter 1 students have made substantial gains in basic and advanced skills in both reading and mathematics as measured by standardized, norm-referenced tests. These gains exceed national averages.

The Advanced Placement (AP) Program. The Advanced Placement program, sponsored by the College Entrance Examination Board, is designed to assist high schools in the state and across the nation in meeting the needs of academically able students. This includes assisting high schools in developing college-level courses and furnishing a national program of testing, scoring, and reporting. The AP program is an excellent means for Utah students to earn significant amounts of college credit while still in high school. Over 14,000 Advanced Placement examinations were taken by 9,436 Utah students in 1993.

Concurrent Enrollment. Concurrent enrollment allows high school students to simultaneously earn both high school and college credit. To accomplish this, school districts and colleges and universities work closely together. During the 1992-93 school year, 6,076 Utah students earned college credit in these academically challenging programs.

Gifted and Talented Programs. Gifted and talented programs for Utah elementary and middle school students are in place in virtually every Utah school district. The goal of these programs is to promote higher levels of attainment in a variety of areas for academically talented students. State Office of Education sponsored teacher training is offered to further develop and refine programs that foster a wide range of students' capabilities and talents.

The Utah Character Education Consortium. This multi-district Utah consortium is focusing formally on addressing such areas as citizenship and community service as positive elements in the curriculum for students. The State Board of Education's Utah Character Education Plan offers support and guidelines to character development efforts statewide.

Special Education Services to Students With Mild and Moderate Disabilities. Services for students with mild and moderate disabilities are being provided statewide as part of Utah's special education effort. The focus of these programs is on reading, math, and science. Services are provided in a variety of settings depending on the individual needs of students. Many districts are involved in an effort to find ways to provide these services to students in the regular classroom setting. Results to date have shown that students achieve at higher levels in all academic areas when services are provided in the regular classroom.

Early Intervention for Ensuring Students Success. This program is a joint effort among Health, Education and Human Services agencies. The project is geared to meet the needs of students at risk and their families during the early elementary years of kindergarten through grade three. At present some 35 schools are participating in the project over a three-year period. In all schools the emphasis is on collaboration among service providers so that the variety of needs of children and their families are addressed.

GOAL 4: SCIENCE AND MATHEMATICS

PRESENT PERFORMANCE/STATUS

Science and Mathematics From the Statewide Testing Program. Utah's Statewide Testing Program mathematics results from the fall of 1992 showed Utah 5th graders scoring at a median national percentile rank of 62. Median performance of 8th graders was the 55th percentile, while 11th graders scored at the 59th percentile. Performance at each of these three grade levels was higher than the national norm and improved between 1990 and 1992. In the area of science, Utah 5th graders scored at the 56th percentile, with 8th graders at the 58th percentile. Eleventh grade science results were at the 60th percentile for the total state.

Science and Mathematics Performance From the Core Assessment Program. In addition to the norm-referenced testing accomplished as part of the State Testing Program, Utah has in place an ambitious program of criterion-referenced testing. The Core Assessment Program is linked specifically to the state's core curriculum, and results are reported for each of the major core curriculum concepts at each grade level. Statewide mathematics results for Utah 5th and 6th grade students in 1993 demonstrated very adequate performance on some core concepts but areas of deficiency in others. Of particular concern was the performance of 5th and 6th grade students on such concepts as the addition and subtraction of fractions as well as multiplication and division of fractions. Still another source of concern for Utah mathematics educators is mathematics problem-solving. Performance of Utah students in items involving more "real world" mathematical reasoning skills was substantially below other areas tested. Core assessment results in the area of science showed that Utah students in grades 1-4 demonstrated substantial mastery of core science concepts. Performance at grades 5 and 6, however, was lower. Such concepts as forms of energy, the nature of matter, temperatures/heat and identification and classification of plants exhibited lower levels of performance than other science concepts tested.

Utah ACT Science and Mathematics Performance. Over a twenty-year period, the performance of Utah students on the American College Testing Program has tended to be above the level of the national group of test-takers in spite of the fact that a very high percentage of Utah students (65-70 percent) elect to take the ACT. Performance of Utah students on the ACT science and science reasoning tests has been a particular strong point with the state realizing levels of performance much in excess of national averages. The Utah ACT mathematics score has improved dramatically over the past five years and is currently higher than the national average for the first time in two decades. Since the ACT mathematics score is composed largely of content taken from introductory algebra,

geometry, and intermediate algebra, this recent improvement is important. In 1993, Utah ACT mathematics scores increased to a point just above the national average. 1993 Utah science reasoning scores were substantially higher than the national average.

Advanced Placement Science and Mathematics Results. 1993 Advanced Placement test results reported by the College Board show Utah students performing very well on such AP tests as biology, chemistry, physics, and calculus. Well over 3,000 Utah students earned significant amounts of college credit in the areas of Advanced Placement science and mathematics as a result of high levels of test performance in these areas. Table 6 presents an overview of the results.

Course-Taking Patterns in Mathematics and Science. Since 1984, the Utah State Office of Education has been tracking the course-taking patterns of Utah high school seniors. In general, the enrollment of Utah high school students in courses in the typical college-preparatory math sequence has risen substantially between 1984 and 1993. This trend is particularly strong for intermediate algebra and geometry. However, at least slight increases were noted for every mathematics course between 1984 and 1993. In the area of science, both chemistry and physics have demonstrated modest increases in enrollment between 1984 and 1993. Biology remains the state's most popular science course with over 85 percent of Utah students taking this course.

Percentage of Mathematics and Science Teachers With a College Major in Their Field. A 1991 report from the Council of Chief State School Officers noted that 32 percent of Utah teachers whose primary assignment is mathematics have a college major in that field. This contrasts with a national figure of 47 percent. In science, 57 percent of the teachers whose primary assignment is science hold a college major in that field in the state. This compares with a national level of 66 percent. Utah's program of subject-specific endorsements is a major effort to increase the pool of qualified teachers in these areas.

EXAMPLES OF UTAH PROGRAMS ADDRESSING GOAL 4

The Core Curriculum in Mathematics and Science. As with other areas of the curriculum, the objectives-based, statewide core curriculum has been in place for mathematics and science for students since 1987. The policy which initiated the core curriculum also required that secondary teachers have subject-specific endorsements in their teaching areas. Those endorsements certify competency in a specific field. The revision of the mathematics core K-7, which was based on NCTM Standards, was distributed during the 1992-93 school year. The revision of the science core K-6, which is based on the emerging national science standards will be published in the fall of 1994. Plans for the revision of the secondary core in mathematics and science are being finalized.

TABLE 6

Utah and National Advanced Placement Participation and Performance on Science and Mathematics Examinations for 1993

Examination	Number of Utah Students Taking Exam	Percentage Qualifying* for College Credit	
		Utah	Nation
Biology	1,414	68.1%	61.6%
Chemistry	731	72.2%	58.9%
Physics C	213	84.0%	74.1%
Calculus AB	1,871	83.0%	68.2%
Calculus BC	186	80.1%	77.6%

The Educational Technology Initiative in Mathematics and Science. As described under Goal 3, the Educational Technology Initiative is a major Utah effort to infuse the most up-to-date instructional technology into the classroom. Mathematics and science are two of the critical areas which will benefit from the implementation of a wide array of educational technology ranging from calculators and computer-assisted instruction to the use of video discs.

Statewide Inservice Training for Teachers of Mathematics and Science. The Utah State Office of Education and the Utah System of Higher Education are working cooperatively on the use of both federal and state funds to address inservice training priorities. A major emphasis has been in the elementary schools. With the coming of the new national standards in mathematics and science, it is important that these teachers receive training in both content and methods. The teacher/specialist program for elementary teachers in mathematics is now statewide. Secondary mathematics teachers have received considerable training in the use of graphics calculators and technology in the classroom. Secondary science teachers have received training in subject-specific content and process skills delivery. During the 1992-93 school year, approximately 750 teachers of mathematics and 500 teachers of science participated in these training programs.

The Mathematics, Science, and Technology Alliance. This organization has been organized with members from business, public education, private education, and colleges and universities. A major thrust of the Alliance has been an effort to link mathematics, science, and technology education and the needs of business and industry.

Subject-Specific Endorsements. In addition to qualifying to teach mathematics and science classes on the basis of holding an academic major or minor, Utah teachers may obtain an endorsement in these areas by participating in inservice training and demonstrating proficiency in their specific fields. This effort has resulted in expanding the pool of qualified mathematics teachers by 593 and science teachers by 463 since 1987.

The Utah Math/Science Network. The Math/Science Network offers a program for junior and senior high school students (particularly young women) which helps them become more aware of and more skillful in mathematics and science. The Math/Science Network sponsors major conferences for young women which are held in virtually all Utah institutions of higher education. Conference goals include the following:

- To increase young women's interest in mathematics and science.
- To foster awareness of career opportunities for women in math and science-related fields.

- To provide students an opportunity to meet and form personal contacts with women working in math and science-related occupations.

- To assist parents and educators who want to encourage young women to pursue math and science educational and career interests.

The Mathematics, Engineering, Science Achievement (MESA) Program. The purpose of the Utah MESA Program is to increase the participation of African Americans, Hispanics, Native Americans, Pacific Islanders, and non-minority women in the fields of math, science, engineering, and related professions. The goal of the program is to enrich the academic experiences of both junior and senior high school students in math and science and to stimulate their interest in these fields as well as to encourage the students to graduate from high school prepared for the challenge of university studies. During 1992-93, the program served approximately 2,000 students in 46 schools located in six Utah school districts.

GOAL 5: ADULT LITERACY AND LIFELONG LEARNING

PRESENT PERFORMANCE/STATUS

Literacy Estimates for Utah and the Nation. Estimates of Utah's literacy rates in a variety of federal studies place the state in a rather positive position. Although there are no universally accepted definitions of literacy, high school graduation is often used as an indicator in this area. The 1990 Census showed that over 85 percent of Utah adults over the age of 25 held a high school diploma. This ranked the state second in the nation on this dimension.

A federal Department of Education study published in 1986 ranked Utah first among all 50 states in literacy rate. Utah's literacy rate was estimated to be 94 percent compared with a national figure of 87 percent. In spite of this enviable showing, a variety of other estimates based on state and national information would suggest that between 5 and 10 percent of Utah's adult population do not possess sufficient verbal and mathematics skills to function well in everyday life.

Another positive indicator in this area is the Census information on median years of education. Utah has had the highest median years of education of any state in the nation for the last three Census periods.

Census Indicators of College Completion. The 1990 Census provides information concerning the amount of college completed by the Utah adult population. 57.9 percent of Utah adults in 1990 had completed between one and three years of college. This ranked the state first among the 50 states in this category with the national average at 45.2 percent. Utah also does well in the percentage of its adult population completing four or more years of college. As of 1990, the state had 22.3 percent of its adult population complete at least four years of college. The latter figure ranked Utah 12th in the nation and compared with a national percentage in 1990 of 20.3 percent. This information is presented in Table 7.

Public Higher Education Enrollment. During the 1992-93 school year, 73,224 students were enrolled in Utah's public system of higher education on a full-time equivalent basis. This figure was up over 3,500 students from the previous year.

TABLE 7

1990 Educational Attainment Statistics From the U.S. Census For Adults Age 25 and Older

The Utah and National Profile

Educational Attainment	Percent		Utah's Rank in Nation
	Utah	Nation	
High School Graduate	85.1%	75.2%	2nd
Some College	57.9%	45.2%	1st
Associate Degree	30.3%	26.5%	12th
Bachelor Degree	22.3%	20.3%	15th
Graduate Degree	6.8%	7.2%	22nd

EXAMPLES OF UTAH PROGRAMS ADDRESSING GOAL 5

Adult Education. During 1992-93, 27,770 Utah adults attended adult basic and adult high school education classes. For this same period of time, 2,419 adults received high school diplomas. The purpose of Utah's adult education programs is to provide growing numbers of Utah citizens with the tools to become literate, self-reliant, and productive citizens.

Applied Technology Centers. Utah's system of Applied Technology Centers has developed a remarkable partnership and collaboration between public education, higher education, state government and business. The five area technology centers across the state enable both high school students and adults with varying backgrounds, needs, and aptitudes to obtain diverse, quality training for employment in the businesses and industries of the state. The following are the key characteristics of the programs provided by Utah's Applied Technology Centers:

- Career assessment and guidance
- Job skills training for both high school students and adults
- An open-entry/open-exit program where trainees may start anytime and leave when training is completed
- Proficiency-based programs
- Personalized training plans
- Flexibility in responding to local labor-market needs
- Intensive, job-specific training
- Job placement

Custom-Fit Training. The Custom-Fit Training Program administered by the State Office of Education assisted over 160 companies during 1992-93 by training over 3,600 of their new employees. Training in this program is geared specifically to the needs of companies. This program assists companies with the costs of classroom training, on-the-job-training, occupational curriculum development, and assessment.

Community Education. Virtually every Utah school district is involved in some aspect of community education. This includes preschool, kindergarten through grade twelve, and programs for adults. Statistics compiled by the State Office of Education showed over 850,000 Utahns of all ages participated in some aspect of community education during the 1992-93 period in Utah's school districts. These participants were involved in over 6,600 programmed courses and non-course program services.

Lifelong Learning and the Utah System of Higher Education. The Utah System of Higher Education consists of nine public colleges and universities governed by the State Board of Regents. The system includes two major research/teaching universities, two metropolitan/regional universities, and five community colleges. Both in terms of academic emphasis and geographic distribution, Utah's colleges and universities serve Utah's expanding needs for higher education. All of Utah's public colleges and universities and many private schools offer extensive continuing education programs to promote lifelong learning.

GOAL 6: SAFE, DISCIPLINED AND DRUG-FREE SCHOOLS

PRESENT PERFORMANCE/STATUS

Documentation of Youth Risk Behavior. A 1991 study conducted by the Health Behavior Laboratory at the University of Utah documented a variety of findings related to Utah youth risk behavior. Among the important findings of this study were the following:

- 24.8 percent of all students reported that at least once in the past 30 days they had been in a car driven by someone who had been drinking.
- 20.8 percent of all male students and 2.3 percent of all female students reported carrying a weapon more than 5 days during the past 30 days.
- 15.3 percent of all students responded that they smoke regularly.
- 8.2 percent of all students reported they had had 5 or more alcoholic drinks in a row on 3 or more days during the past month.
- 3.2 percent of all students reported having smoked marijuana regularly.

Drug Use Among Utah Students. A 1989 study by Stephen J. Bahr surveyed 43,000 Utah students in grades 5-12. Among the study's findings were the following: For students in grades 11 and 12, one in three of these students had consumed alcohol during the past month, one in five had used tobacco, one in ten had used marijuana, one in twenty had taken amphetamines, and one in fifty had used cocaine. The study went on to point out that alcohol, tobacco, marijuana, cocaine, and inhalants were used less frequently by high school seniors in the state of Utah than by seniors across the nation. Similar patterns of usage between Utah and national high school seniors were noted in the proportion using amphetamines, barbiturates, tranquilizers, heroine, LSD, and PCP. The study also noted that adolescent drug use in Utah has declined somewhat during the past five years and is overall less than the nation as a whole. Still, substantial numbers of Utah adolescents live in a setting where they are exposed to illegal drug use regularly. More than one third of the Utah students in grades 7-12 said they personally knew someone who regularly used illegal drugs.

In 1991-92, Dan Jones and Associates conducted a state survey for the Division of Substance Abuse confirming the above information and also showing continued decreases in adolescent drug use.

Juvenile Crime Rates. The Utah Department of Public Safety's 1990 report on crime in Utah indicated that in Utah, as in other states, a significant proportion of total crimes are committed by juveniles. The report demonstrates that juvenile arrests account for 35 percent of the total reported arrests made in 1990. For many crimes, the number of juveniles being arrested exceeds the number of adult arrests in spite of the fact that most juveniles arrested are 14 through 17 years of age.

Teacher Opinions on School Safety and Drug Use. The Carnegie Foundation conducted a 1990 survey of teachers in all 50 states in the area of school safety and drug problems. The opinions of both Utah and national teachers are portrayed in Table 8. While Utah teachers are very close to teachers across the nation on school safety, the Utah sample sees fewer problems in alcohol and drug abuse.

EXAMPLES OF UTAH PROGRAMS ADDRESSING GOAL 6

Alcohol, Drug and Violence Prevention Programs in Utah Schools. A recent report published by the State Office of Education shows that there are no fewer than 39 programs impacting the public schools in the areas of alcohol, drug and violence prevention. These programs fall into several different categories including curriculum programs, peer programs, parent education programs, and general programs. The following examples illustrate the nature of programs in these categories:

- "Prevention Dimensions" (The Utah K-12 Alcohol, Drug and Tobacco Prevention Education Program). This effort includes three-day teacher inservice training provided by local substance abuse authorities/school districts. Materials are developed by the Utah State Office of Education, the Division of Substance Abuse, and the Department of Health. This program is currently operative in all 40 Utah school districts. A 1990 external evaluation of this program indicates that its cumulative efforts are positive and significant.

- The Governor's Youth Council on Alcohol and Drugs. This program, which is sponsored by the Governor's Office and the State Division of Substance Abuse, provides an opportunity for youth input and involvement in program planning and implementation in the areas of alcohol and drug abuse prevention. This effort encompasses all 40 Utah school districts.

- Parent Education Resource Centers. Sponsored by the Governor's Office, the State Division of Substance Abuse and local school districts, programs like the Parent Education Resource Centers provide parent education and training to accompany school programs to help generate parent support and involvement.

TABLE 8

Utah and National Teacher Opinions in the Areas of School Safety and Drug Use from The Condition of Teaching[1]

	Serious Problem		Somewhat Serious		Not a Problem	
	Utah	Nation	Utah	Nation	Utah	Nation
"Is theft a problem in your school?"	3%	4%	65%	59%	32%	36%
"Is vandalism a problem in your school?"	4%	5%	58%	55%	38%	40%
"Is violence against students a problem in your school?"	3%	3%	31%	35%	66%	63%
"Is violence against teachers a problem in your school?"	-	1%	11%	15%	88%	84%
"Is alcohol a problem in your school?"[2]	17%	24%	66%	60%	17%	16%
"Are other drugs a problem in your school?"	4%	7%	40%	43%	56%	50%

[1]The Carnegie Foundation, Princeton, N.J., 1990.

[2]Secondary teachers only

OTHER IMPORTANT UTAH EDUCATIONAL REFORM PROGRAMS

In addition to the programs which have been highlighted in relationship to each of the six national educational goals, Utah has implemented a variety of reform programs geared to meet its special circumstances as a state.

Many of the programs already highlighted in the present report are responsive to the overall Utah reform effort. Highlighted below are several reform programs which have not been summarized previously in this report but are key aspects of Utah's continuing educational reform efforts.

- The Career Ladder Program. The purpose of the Career Ladder Program, enacted by the state Legislature in 1983, is to attract and retain good teachers and to improve the quality of schools in Utah. Strategies in this program considered essential for school reform include: (1) greater financial and career incentives to keep good teachers in the classroom; (2) more and better teacher evaluations to improve the quality of teachers; and (3) better use of teacher talents outside the classroom. This major Utah reform effort is currently funded at slightly more than 36 million dollars per year, and virtually every teacher in Utah has participated in the program to some degree.

- The Incentives for Excellence in Public Schools Program. This effort provides a means to promote stronger partnerships between education and private enterprise for enhancing educational excellence. The basis of the program is a legislative appropriation available to school districts which can match the legislative funds from private sources. The State appropriation for this program currently exceeds $600,000 per year. Funds generated can be used for programs, practices, learning materials, and equipment which have direct impact on the instruction of students.

- The Site-Based Decision Making Pilot Program. This program was established by the 1991 Legislature to develop models of participatory management for Utah schools. As used in this program, "site-based decision making" means a program designed and developed by a local school community group composed of teachers, classified employees, school administrators, and parents of students that provides for decisions to be made at the school level on matters critical to the achievement of school goals established by the group. This unique effort involves the competitive selection and three-year funding of 16 elementary and secondary schools to develop, implement, and evaluate different participatory management models for ultimate review by the legislature and dissemination to other Utah schools and districts. Each of the selected schools has been allocated $50,000 to carry out its plans, and the entire effort will be extensively evaluated by a third party evaluator. This project will reach its conclusion during the 1993-94 school year.

- The Experimental and Developmental Program. This program was created in 1991 by the Utah Legislature to provide an incentive to all Utah school districts to engage in experimental and developmental activities to improve schools. This new initiative was funded in the amount of $4 million by consolidating several existing competitive grant programs into a "block grant" format that provides 75 percent of the available funds directly to Utah's 40 school districts. The formula for this distribution provides a $26,500 base to each of the school districts with remaining funds being allocated to each of the districts on a per student basis. This results in the largest school district receiving over $200,000 and the smallest district receiving $26,500. The remaining 25 percent of the available funds are retained at the state level for special discretionary allocation to those projects that the State Board of Education determines to have "statewide significance."

Utah Partnership for Educational and Economic Development. The Utah Partnership is a cooperative effort on the part of education, business, and government to strengthen human resources through educational opportunities and economic development in the state. The Partnership is a concept developed by the Utah Task Force on Education and Economic Development. The Partnership is currently pursuing five major objectives. These include:

- Market-driven training
- Improved basic education
- Better utilized resources
- Enhanced research and development efforts
- Improved image

The Educational Technology Initiative is a major area of focus for the Partnership.

BEYOND THE NATIONAL GOALS: STRATEGIC EDUCATIONAL PLANNING IN UTAH/CENTENNIAL SCHOOLS

In 1989, Utah began a major effort in educational strategic planning. This effort began with the "Shift in Focus" initiative by the State Board of Education. A major legislative thrust resulted in a wide-based strategic planning effort involving many segments of the educational, business, and political community as well as the public at large. The initial phase of this plan was completed in 1992, and its major elements were put into place by the 1993 Legislature in the form of the "Utah Strategic Planning Act for Educational Excellence."

Mission Statement. Public education's mission is to assure Utah the best educated citizenry in the world and each individual the training to succeed in a global society by providing students learning and occupational skills, character development, literacy and basic knowledge through a responsive statewide system that guarantees local school communities autonomy, flexibility, and client choice, while holding them accountable for results.

Objectives for Public Education in Utah.

- *100 percent of Utah's students will achieve the objectives of their individually developed educational/occupational plans.*
- *Each student departing the public schools will achieve success in productive employment and/or further education.*
- *Utah education will be the standard worldwide.*
- *Utah will achieve the highest per household income in America.*

Strategies in Education for Utah.

1. Redesign the educational system, its organization, laws, and funding formulas, including removing state and local barriers, to achieve our mission and objectives.
2. Develop a world-class curriculum that enables students to successfully compete in a global society.
3. Energize Utah's system of public education by attracting and retaining educators from among the best and brightest citizens through an aggressive plan to elevate its stature as a profession and compensate in a competitive way.

4. Empower each school to create its own vision and plan to achieve results consistent with the mission and objectives of Utah public education.

5. Create the environment and provide the training necessary for school communities to achieve their mission.

6. Employ technology to restructure and improve the teaching/learning process and its delivery.

7. Install an assessment information retrieval system that will provide students, parents and educator with reliable, useful and timely data on the progress of each student.

8. Educate all stakeholders on the mission and objectives of public education in Utah.

9. Personalize education for each student.

10. Support research and development throughout the system with emphasis on initiatives at the local school level.

11. Expand and strengthen school/business partnerships that support the mission.

UTAH'S CENTENNIAL SCHOOLS PROGRAM

Although all Utah schools are engaged in the pursuit of accomplishing the goals of Utah's Public Education Strategic Plan, a special new program has been established to enhance development in nearly 100 competitively selected schools. The 1993 Legislature established the Centennial Schools program with a $2.6 million dollar appropriation, and most selected schools implement their own restructuring plans.

Enacted into law through House Bill 100 by the 1993 Legislature, the Centennial Schools program commemorates Utah's 100th birthday, which occurs in 1996. Centennial School status and a base allocation of $5,000, plus $20 per student, are awarded to those schools judged to have outstanding plans to change the delivery of educational programs. Plans are voluntarily submitted by schools and must integrate a variety of innovative features designed to achieve systemic change in the school. Centennial Schools must incorporate at least the following features:

1. Implementation of a strategic planning process that: clearly defines performance goals for students and the means for evaluating these goals; establishes strategies to involve business and industry with the school; focuses on the totality of the student through the involvement of other local or state agencies; provides for the extensive involvement of parents in the development of personalized education/occupation plans for each student; and includes the basics of education as well as higher learning skills in new designs to improve learning.

2. Creation and operation of a school-based, decision-making body consisting of parents, teachers, classified employees, students, and administrators with delegated authority to make decisions about the matters that are critical to the achievement of school goals established by the group.

3. Implementation of procedures whereby the school is held accountable according to the authority delegated to it through its site-based, decision-making body.

4. Integration of technology into curriculum, instruction, and student assessment.

5. Provision of procedures for receiving waivers of the local and state rules, regulations, and agreements that prohibit or hinder the school from achieving its performance goals.